Automatic Polarimeter LX100APR

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Description

Automatic Polarimeter LX100APR determines the optical rotation of substances and measures their specific rotation and sugar content. Equipped with an advanced optical rotation system and an intuitive, easy-to-operate interface, the instrument provides fast and reliable measurements and are widely used in the medicine, food, fragrance, sugar, and other related industries.

Specifications

Working wavelength	589.3 nm
Light source	LED cold light source + high-precision interference filter
Measuring range	Optical rotation ± 90°
Brix	± 259°Z
Minimum reading	0.001°
Accuracy	± 0.004°
Repeatability	0.002° (optical rotation)
Measurement mode	Optical rotation, specific rotation, concentration, sugar content and custom formula
Test function	Single, multiple, continuous measurement mode
Temperature control range	10°C - 55°C
Temperature resolution	0. 1°C
Temperature control accuracy	± 0.1°C
Display mode	8-inch TFT true color touch screen
Standard test tube	200 mm, 100 mm common type, 100 mm temperature control type
Light transmittance	0.10%
Data storage	32 G
User management	Four-level authority management
User disables unlocking function	Yes

Multiple export formats	PDF and Excel
Communication interface	USB connection, RS232 connection, VGA, Ethernet
Instrument level	0.01 level
Power	250 W
Power supply	220 V ± 22 V, 50 Hz ± 1 Hz
External dimension	715 x 355 x 280 mm
Net weight	20 Kg
Packing dimension	820 x 480 x 470 mm
Gross weight	30 Kg

Features

- Built-in Peltier temperature control
- Measurement modes include optical rotation, concentration and custom modes
- LED cold light source
- Multi-level authority management with fully configurable access permissions
- 8-inch touch color screen with user-friendly operation
- Integrated automatic calibration system
- Fully compliant with 21 CFR requirements (electronic signatures, data traceability, audit trail, and data anti-tampering functions)
- Support Wi-Fi printing and data statistical retrieval
- 32 GB data storage with multiple export formats including PDF and Excel

Applications

- Automatic Polarimeter is used across medicine, food, agriculture, petroleum, fragrance, and health industries to analyze optically active substances such as sugars, antibiotics, vitamins, essential oils, and agricultural compounds.

Optional Accessories

- 50 mm and 200 mm long hastelloy temperature control tube
- Mouse
- Keyboard connection
- Universal printer/wireless network printer

- Cloud service
- MD 5 code verification
- Custom formula

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